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FACSIMILE COVER

Date:	December 9, 2004		
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From:	Greg J. Michelson	Date Sent:	
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This transmittal consists of 7 total page(s), including this cover sheet.

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Applicant(s): Yin S. Tang
Title: Microlens Arrays
Serial No.: 10/758,989 Filing Date January 16, 2004
Examiner: Unassigned Group Art Unit: 1731
Docket No.: M-15319 US Confirmation No. 7910

Irvine, California
December 9, 2004

Fax No. 703-746-9195

PATENT EXAMINATION'S FILING RECEIPT CORRECTION
COMMISSIONER FOR PATENTS
Alexandria, VA 22313-1450

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I hereby certify that the following Request for a Corrected Filing Receipt (2 pages), Filing Receipt (2 pages), and First Page of Utility Patent Application (1 page) are being facsimile transmitted to the Patent and Trademark Office on the date shown below.

Dated: December 9, 2004


Greg J. Michelson, Reg. No. 44,940

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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

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PATENT EXAMINATION'S FILING RECEIPT CORRECTION

COMMISSIONER FOR PATENTS

Alexandria, VA 22313-1450 .

REQUEST FOR A CORRECTED FILING RECEIPT

Dear Sir:

Attached is a copy of the official Filing Receipt received from the Patent and Trademark Office in the above-noted application for which issuance of a corrected filing receipt is respectfully requested.

The Filing Receipt does not list the Domestic Priority data as claimed by applicant. It should read: This application is a continuation-in-part of U.S. Application No. 10/754,365, filed January 8, 2004. A copy of a first page of the utility application which was filed with the U.S. Patent and Trademark Office on January 16, 2004 is attached.

This correction is due to the PTO's error so no fee is due at this time. Please deduct any additional fees from, or credit any overpayment to the Deposit Account 50-2257.

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Certificate of Transmission

I hereby certify that this correspondence is being facsimile transmitted to the Commissioner for Patents, Fax No. 703-746-9198 on the date stated below..

Tina Kavanagh
Tina Kavanagh

December 9, 2004

Respectfully submitted,

Greg J. Michelson

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APPL. NO.	FILING OR 371 (c) DATE	ART UNIT	FIL FEE REC'D	ATTY. DOCKET NO.	DRAWINGS	TOT CLMS	IND CLMS
10/758,989	01/16/2004	1731	484	M-15319 US	12	31	3

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CONFIRMATION NO. 7910

UPDATED FILING RECEIPT



OC000000012988047

Date Mailed: 06/18/2004

Receipt is acknowledged of this regular Patent Application. It will be considered in its order and you will be notified as to the results of the examination. Be sure to provide the U.S. APPLICATION NUMBER, FILING DATE, NAME OF APPLICANT, and TITLE OF INVENTION when inquiring about this application. Fees transmitted by check or draft are subject to collection. Please verify the accuracy of the data presented on this receipt. If an error is noted on this Filing Receipt, please write to the Office of Initial Patent Examination's Filing Receipt Corrections, facsimile number 703-746-9195. Please provide a copy of this Filing Receipt with the changes noted thereon. If you received a "Notice to File Missing Parts" for this application, please submit any corrections to this Filing Receipt with your reply to the Notice. When the USPTO processes the reply to the Notice, the USPTO will generate another Filing Receipt incorporating the requested corrections (if appropriate).

Applicant(s)

Yin S. Tang, Irvine, CA;

Domestic Priority data as claimed by applicant

Foreign Applications

If Required, Foreign Filing License Granted: 04/20/2004

Projected Publication Date: 07/21/2005

Non-Publication Request: No

Early Publication Request: No

** SMALL ENTITY **

Title

Microlens arrays

Preliminary Class

065

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Title 35, United States Code, Section 184
Title 37, Code of Federal Regulations, 5.11 & 5.15**

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M-15319 US

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MICROLENS ARRAYS

Yin S. Tang

CROSS-REFERENCE TO RELATED APPLICATIONS

[0001] This application is a continuation-in-part of U.S. Application No. [unknown, attorney docket M-15317 US], entitled "Method for Making Micro-Lens Array" and filed January 8, 2004, which is incorporated herein by reference in its entirety.

TECHNICAL FIELD

[0002] This invention relates generally to optics and optical devices and more particularly to microlens arrays, methods for making microlens arrays, and microlens array systems and applications.

BACKGROUND

[0003] Microlens arrays provide optical versatility in a miniature package for imaging applications. Traditionally, a microlens is defined as a lens with a diameter less than one millimeter; however, a lens having a diameter as large as five millimeters or more has sometimes also been considered a microlens.

[0004] There are many conventional methods for manufacturing microlenses. For example, one commonly used technique for manufacturing microlenses begins by coating a substrate with a selected photoresist, exposing the photoresist coated substrate to radiation through a mask, or alternatively, subjecting the photoresist to gray scale laser exposure. Upon heating the substrate, the exposed photoresist melts and surface tension pulls the material into the form of convex lenses. The depth of the photoresist determines the focal length of the lens.

[0005] Another method for the manufacture of microlenses is to use ion exchange. In this method, ions are diffused into a glass rod to give a radial refractive index distribution. The index of refraction is highest in the center of the lens and decreases quadratically as a function of radial distance from the central axis. Microlenses made using the ion exchange method are used to collimate light from fibers as, for example, in telecommunication applications.